



# ***GL2000***

**MIXING CONSOLE**

## **SYS-LINK EXPANDER OPTION**

This option connects a GL2000 console as a channel expander to a second console with just one or two interconnecting cables.

### **Kit GL2000-SL1 = SINGLE**

Single option to install SYS-LINK to one GL2000 console to allow interconnection to a second console already fitted with SYS-LINK.

### **Kit GL2000-SL2 = DUAL (2x GL2000-SL1)**

Dual option to install SYS-LINK to two GL2000 consoles.

Interconnecting cables not supplied.

For information on using SYS-LINK please refer to APPLICATIONS NOTE AP2645

## **FITTING INSTRUCTIONS**

**Publication AP2644**

Issue 1 May 96

# FITTING THE GL2000 SYS-LINK EXPANDER OPTION

## 1 CHECK THE CONTENTS :

### GL2000-SL1 KIT

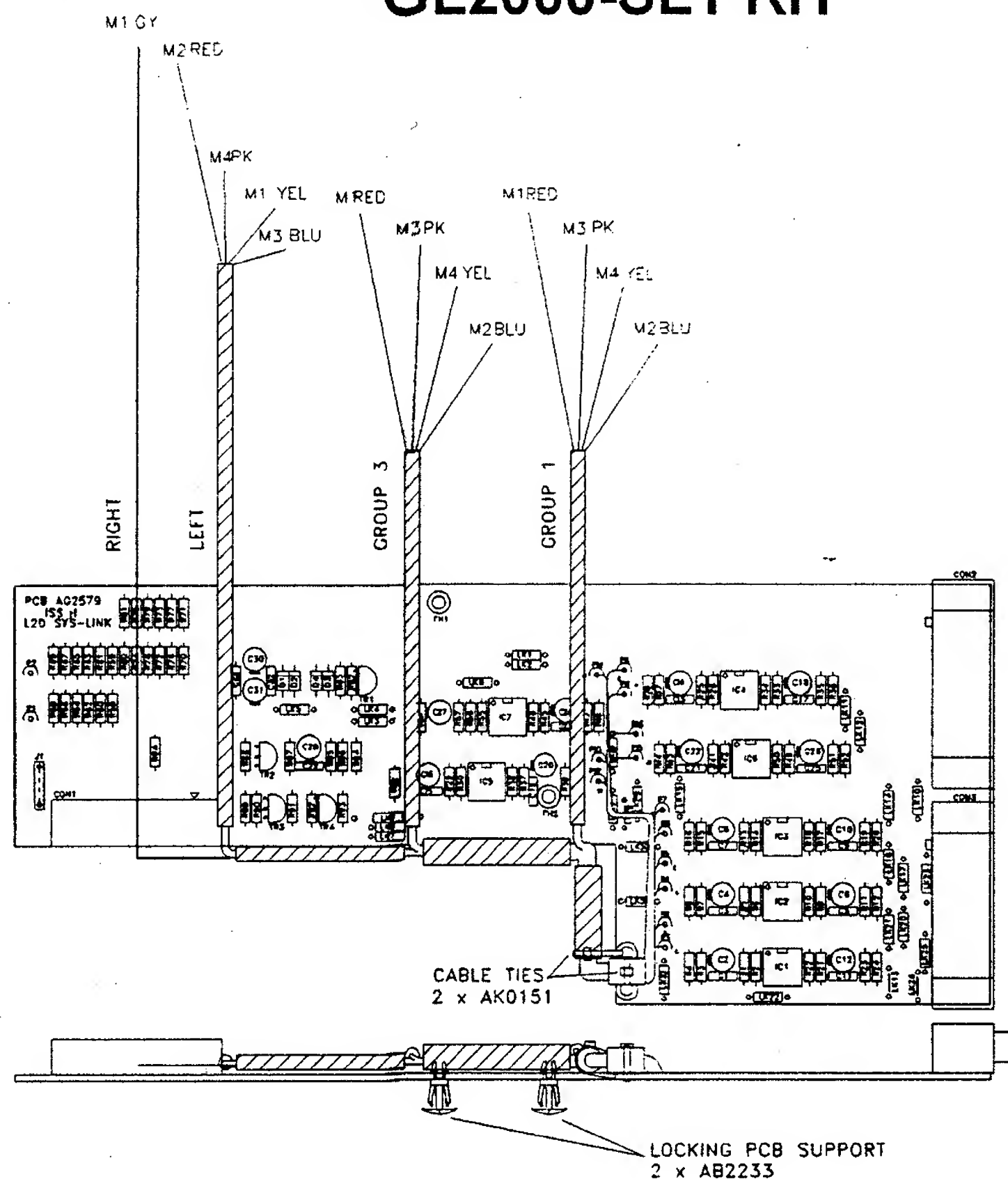
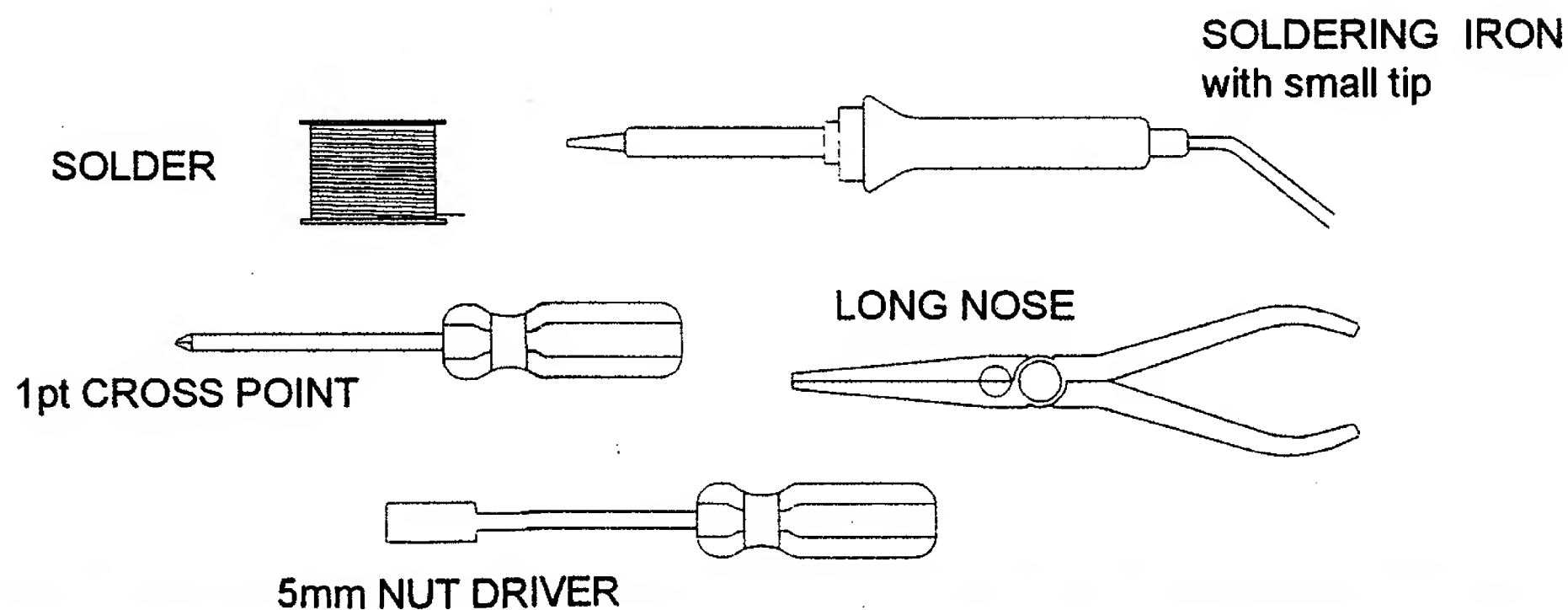


fig. 1

### Contents:

- 1x SYS-LINK circuit board assembly with interconnecting harness and mountings already fitted.
- 1x SYS-LINK Fitting Instructions (AP2644)
- 1x SYS-LINK Application notes (AP2645)

## 2 TOOLS REQUIRED :



### **3 PRELIMINARY:**

To fit the SYS-LINK option it is not necessary to remove any of the circuit board assemblies as access to the SYS-LINK solder pads can be made with the circuit boards in place.

### **4 REMOVE THE CONSOLE BASE :**

Before inverting the console to remove the base, remove the two screws next to the end stereo input channel on the console front panel. Then invert the console and remove the base. Refer to fig. 6.

### **5 REMOVE THE POWER SUPPLY :**

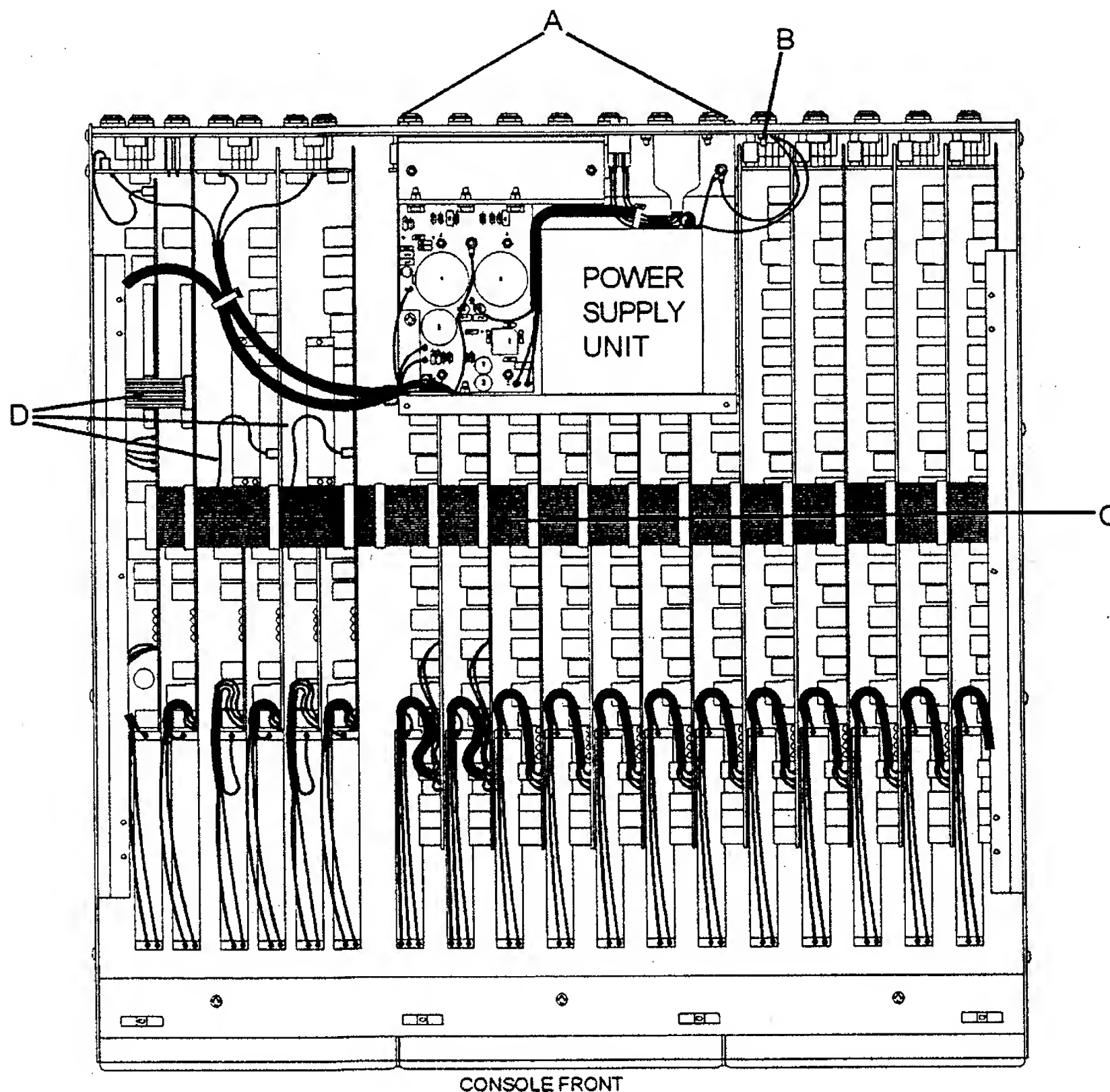
Referring to fig. 2, unscrew the two power supply sub chassis mounting screws (A) in the console rear panel. Disconnect the chassis earth terminal (B) and place the power supply outside the console chassis. Take care not stretch the wires connected to the console.

### **6 REMOVE THE BLANKING PLATE :**

The SYS-LINK blanking plate is located on the rear panel. Unscrew the retaining screws and remove the blanking plate.

### **7 DISCONNECTING THE HARNESS ASSEMBLIES:**

Disconnect the MAIN HARNESS (C) plugged into the connectors mounted along the edge of the circuit boards. Disconnect the flexible flat cables (D) plugged into the GROUP & LEFT/RIGHT circuit boards.

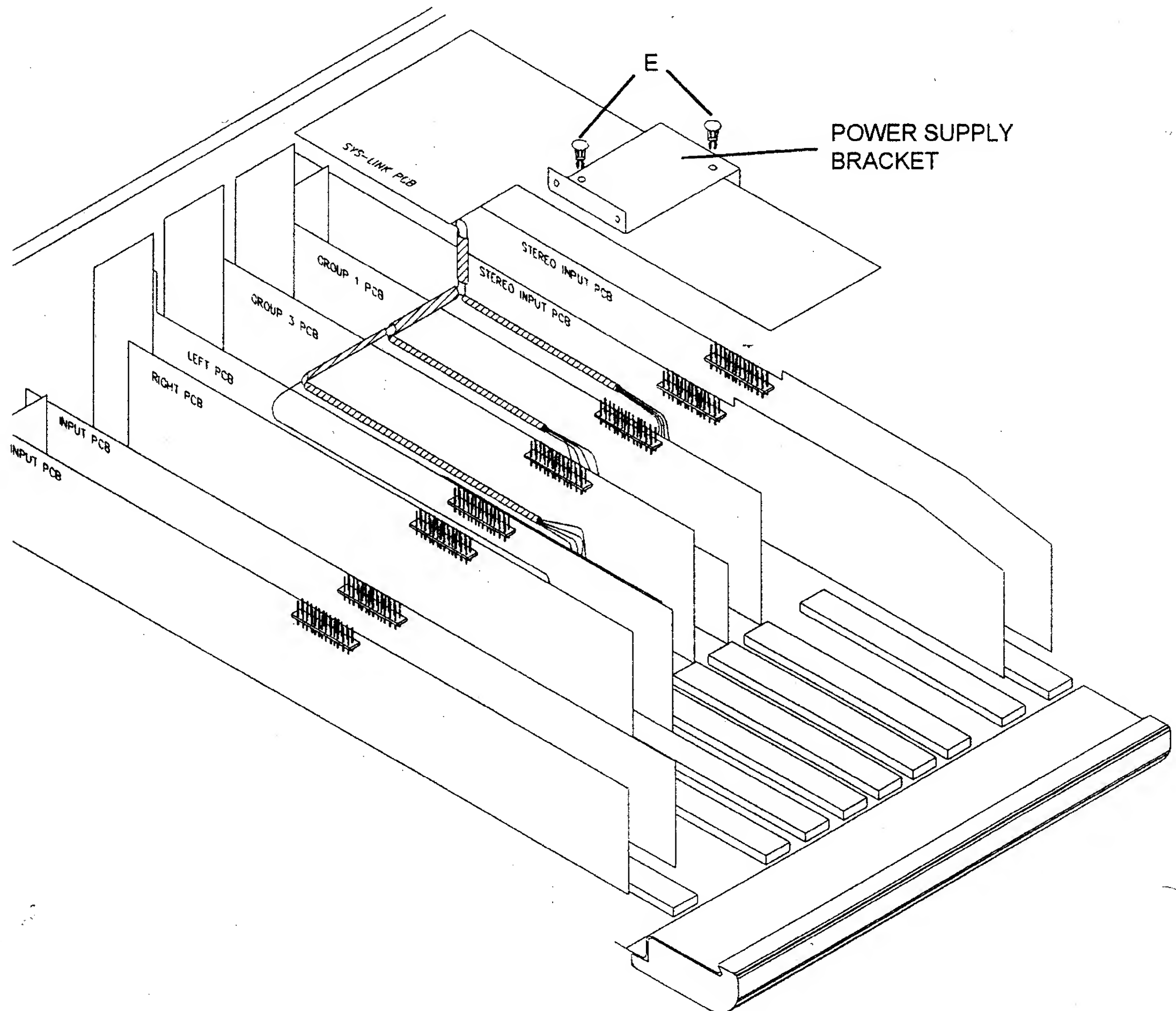


GL2000 inverted with the base cover removed.

fig. 2

## ⑧ POSITIONING THE SYS-LINK ASSEMBLY:

Remove the power supply bracket from the power supply sub chassis by unscrewing the two screws next to the power supply circuit board. Fit the bracket to the SYS-LINK circuit board assembly with the 2 nylon snap in pillars (E) as shown in fig 3. Place the SYS-LINK and bracket assembly in the console as shown ready for soldering the wires.



GL2000 with power supply bracket fitted to SYS-LINK assembly

**fig. 3**

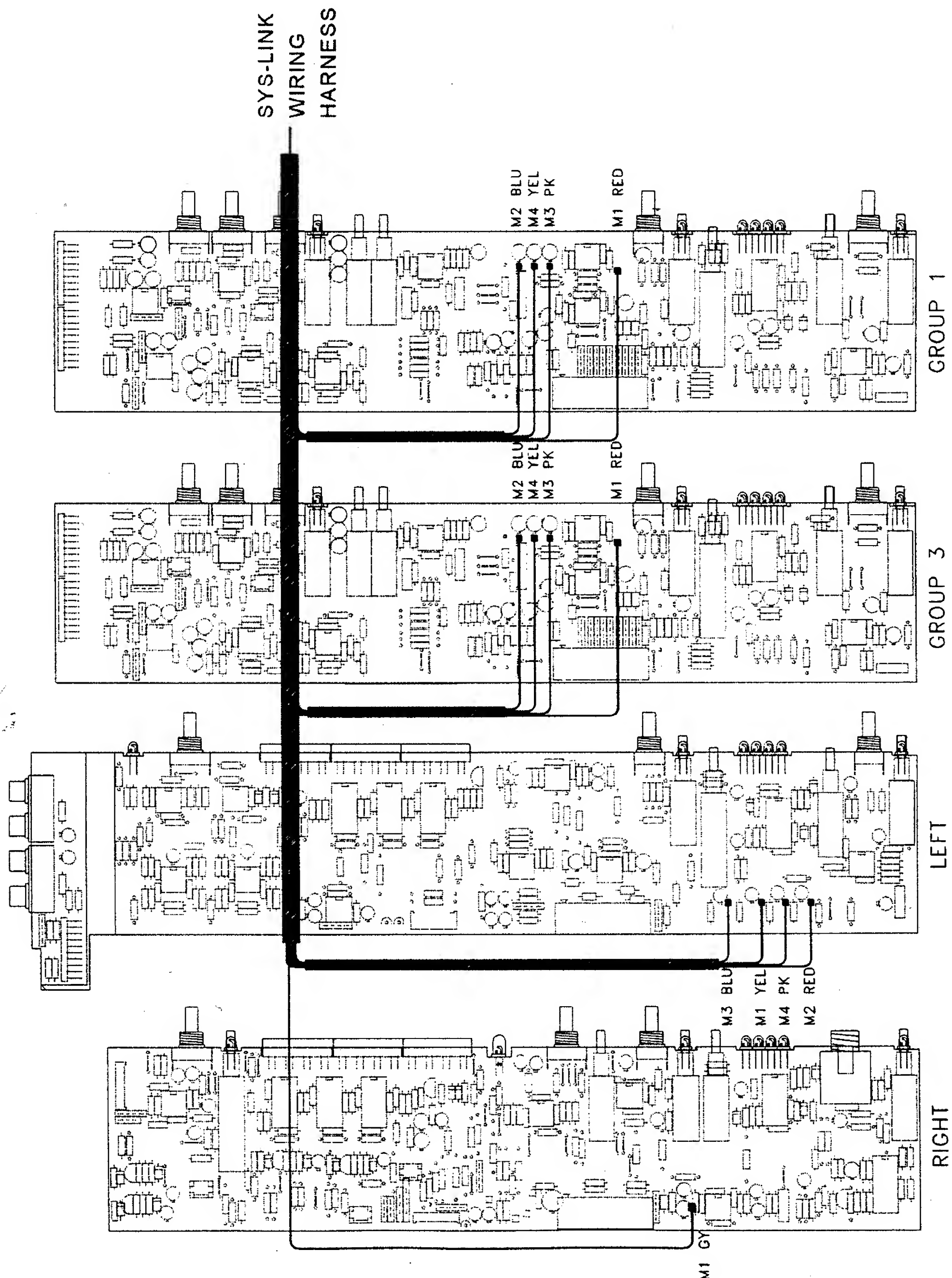
## ⑨ SOLDERING THE SYS-LINK HARNESS ASSEMBLY:

Referring to fig. 4, prepare the solder pads on the circuit boards with new solder to ease the soldering of the SYS-LINK wires.

**Note, the wires are soldered to the trackside of the circuit boards and not the component side.**

It is recommended that the wires in the SYS-LINK harness are soldered to each circuit board in the following order:

GROUP 3 then GROUP 1 then LEFT and then finally the RIGHT circuit board assembly.



L2D WIRING PAD LOCATION FOR SYS-LINK

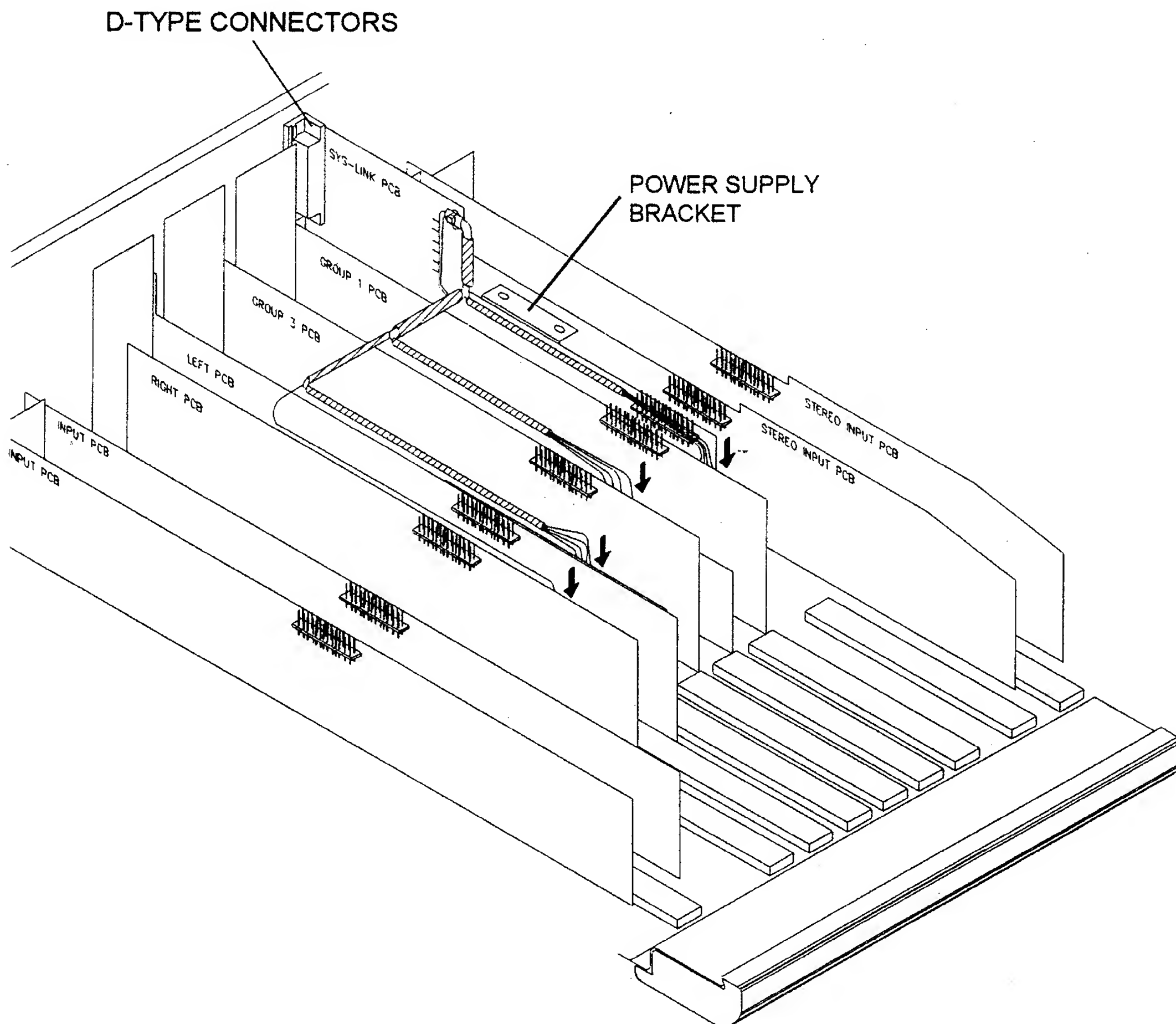
GL2000 SYS-LINK wiring points.

fig. 4



## ⑩ FITTING THE SYS-LINK ASSEMBLY :

When all the SYS-LINK wires have been soldered, remove the 4 screw fixings from the two D type connectors and manoeuvre the SYS-LINK circuit board and power supply bracket assembly into the console chassis as shown in fig. 5. Mount the D type connectors onto the rear panel with the 4 fixings.



SYS-LINK and power supply bracket fitted into GL2000 console.

fig. 5

## ⑪ REFIT THE POWER SUPPLY UNIT :

Referring to fig. 2, re-fit the power supply sub chassis into the console chassis as in ⑤.

**DO NOT FORGET TO FIT THE CHASSIS EARTH TERMINAL! (B)**

## ⑫ REFIT THE POWER SUPPLY BRACKET :

Carefully stand the console on its rear panel and re-fit the two countersink front panel power supply bracket screws next to the end stereo input channel. **Support the console during this process.** Place the console on its control surface and fit the two power supply sub chassis screws next to the power supply circuit board.

### **13 REFIT THE HARNESSES :**

Referring to fig. 2, re-fit the MAIN HARNESS (C) onto the circuit boards. Check the harness is correctly aligned onto the circuit board connectors with pin 1 aligned with the red stripe of the ribbon harness. Reconnect the three flexible flat cables (D) to the GROUP and LEFT/RIGHT circuit board assemblies.

### **14 REFIT THE BASE :**

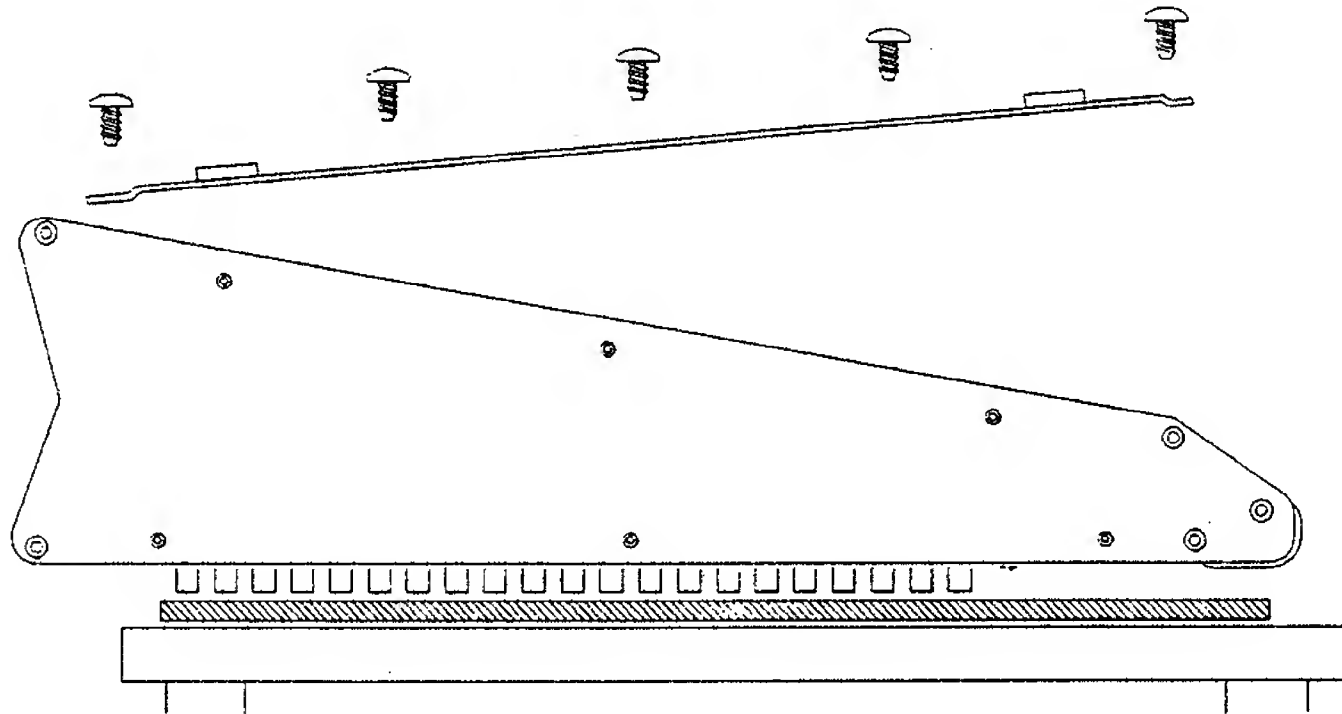


fig. 6

Refit the base. Locate the two screws for the power supply bracket before fitting the other screws.

### **15 PLUG ON THE INTERCONNECTING CABLES:**

SYS-LINK connectors are 25way D-type female. Use 25way D-type male to male connector cables. Connect pin one to pin one on all connectors. Connect shield (screen) to 0V. Standard cables are available from electronic suppliers or computer shops. It is advised that the cable is a screened type less than 10 metres. Use professional quality locking connectors.

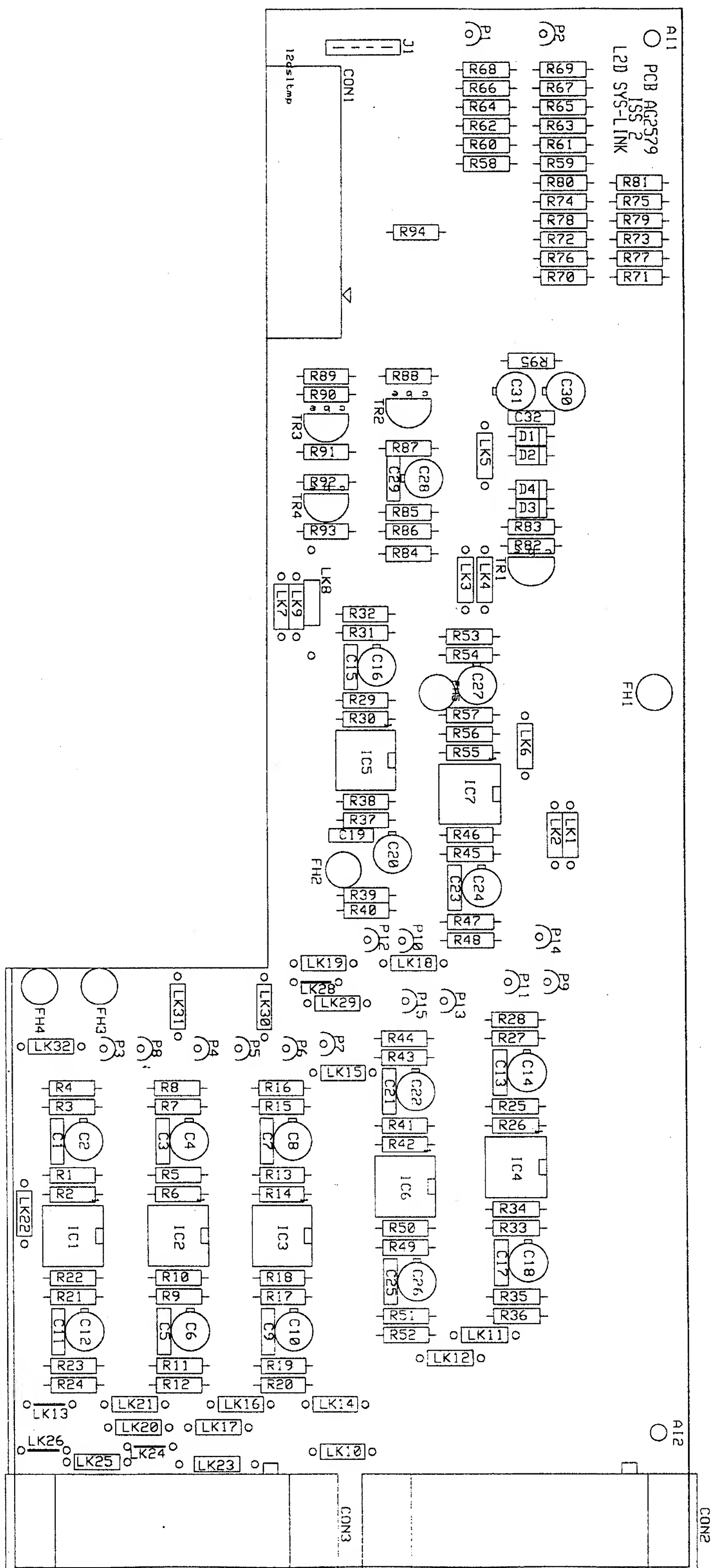
**When connecting to equipment other than the GL Series link all unused audio inputs to 0V earth at the SYS-LINK input.**

### **16 TEST THE SYSTEM:**

Test all SYS-LINK inputs and outputs for correct signal level and quality by probing the D-connector pins or by interconnecting two consoles with SYS-LINK fitted. Test the PFL/AFL system for correct DC buss switching. The SYS-LINK circuit diagram and technical details are included for reference.

The SYS-LINK Applications Note AP2645 is included separately with these fitting instructions. Provide this note to the user as applicable.

Please refer any queries to your Allen & Heath appointed service agent.



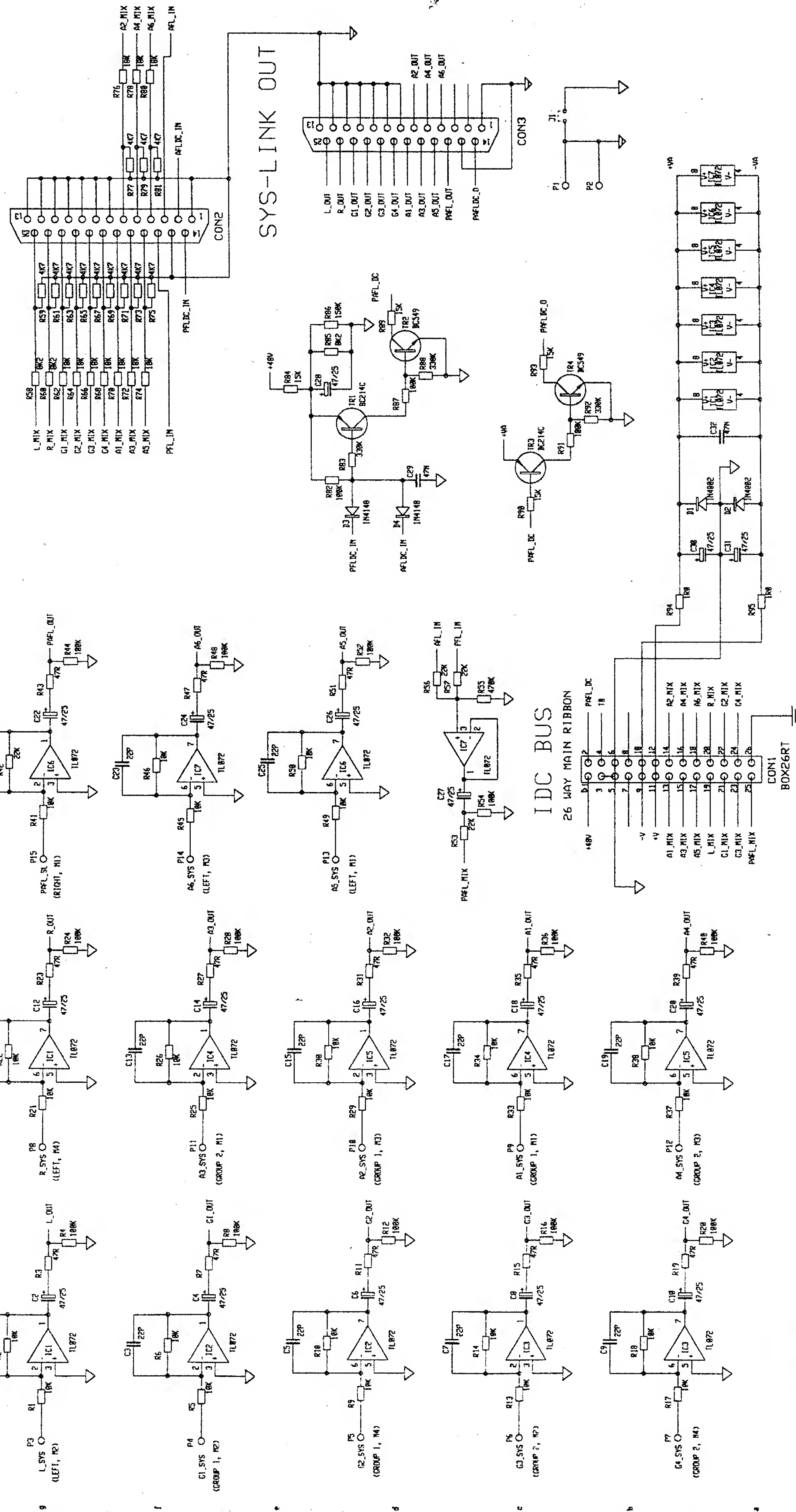


# SYS\_LINK IN

# IDC BUS

# 26 WAY MAIN RIBBON

# SYS-LINK OUT



ISS.		REVISION		BY DATE		NOTES		UNIT TITLE		DRAWING TITLE		DRAWING No. C2579		ISSUE 1		A2	
A		1		AAI 13-03-96 AAI 10-06-96		1. RESISTORS MARKED # ARE 1% ALL OTHERS ARE 5% 1/4W UNLESS OTHERWISE MARKED 2. ELECTROLYTIC CAPACITORS ARE µF VOLTS		L2D		SYS-LINK PCB PCB TYPE AG2579		C2579		1		A2	

MANUFACTURED IN ENGLAND BY

ALLEN & HEATH

CONSOLE	PCB-PIN No	SIGNAL	PCB	COLOUR	PIN No
GI-M1	P9	RED	RED	RED	P9
G2-M1	P11	RED	RED	RED	P11
L-M1	P13	YEL	GY	YEL	P13
R-M1	P15	GY	GY	YEL	P15
GI-M2	P17	YEL	YEL	YEL	P17
G2-M2	P19	YEL	YEL	YEL	P19
GI-M4	P21	YEL	YEL	YEL	P21
G2-M4	P23	YEL	YEL	YEL	P23
GI-M2	P25	YEL	YEL	YEL	P25
GI-M4	P27	YEL	YEL	YEL	P27
L-M2	P29	YEL	YEL	YEL	P29
L-M4	P31	YEL	YEL	YEL	P31
PK	P33	RED	RED	RED	P33
L	P35	RED	RED	RED	P35
R	P37	RED	RED	RED	P37
GI-M1	P39	RED	RED	RED	P39
G2-M1	P41	RED	RED	RED	P41
L-M1	P43	RED	RED	RED	P43
R-M1	P45	RED	RED	RED	P45
GI-M2	P47	RED	RED	RED	P47
G2-M2	P49	RED	RED	RED	P49
GI-M4	P51	RED	RED	RED	P51
G2-M4	P53	RED	RED	RED	P53
GI-M2	P55	RED	RED	RED	P55
GI-M4	P57	RED	RED	RED	P57
L-M2	P59	RED	RED	RED	P59
L-M4	P61	RED	RED	RED	P61
PK	P63	RED	RED	RED	P63
L	P65	RED	RED	RED	P65
R	P67	RED	RED	RED	P67
GI-M1	P69	RED	RED	RED	P69
G2-M1	P71	RED	RED	RED	P71
L-M1	P73	RED	RED	RED	P73
R-M1	P75	RED	RED	RED	P75
GI-M2	P77	RED	RED	RED	P77
G2-M2	P79	RED	RED	RED	P79
GI-M4	P81	RED	RED	RED	P81
G2-M4	P83	RED	RED	RED	P83
GI-M2	P85	RED	RED	RED	P85
GI-M4	P87	RED	RED	RED	P87
L-M2	P89	RED	RED	RED	P89
L-M4	P91	RED	RED	RED	P91
PK	P93	RED	RED	RED	P93
L	P95	RED	RED	RED	P95
R	P97	RED	RED	RED	P97
GI-M1	P99	RED	RED	RED	P99
G2-M1	P101	RED	RED	RED	P101
L-M1	P103	RED	RED	RED	P103
R-M1	P105	RED	RED	RED	P105
GI-M2	P107	RED	RED	RED	P107
G2-M2	P109	RED	RED	RED	P109
GI-M4	P111	RED	RED	RED	P111
G2-M4	P113	RED	RED	RED	P113
GI-M2	P115	RED	RED	RED	P115
GI-M4	P117	RED	RED	RED	P117
L-M2	P119	RED	RED	RED	P119
L-M4	P121	RED	RED	RED	P121
PK	P123	RED	RED	RED	P123
L	P125	RED	RED	RED	P125
R	P127	RED	RED	RED	P127
GI-M1	P129	RED	RED	RED	P129
G2-M1	P131	RED	RED	RED	P131
L-M1	P133	RED	RED	RED	P133
R-M1	P135	RED	RED	RED	P135
GI-M2	P137	RED	RED	RED	P137
G2-M2	P139	RED	RED	RED	P139
GI-M4	P141	RED	RED	RED	P141
G2-M4	P143	RED	RED	RED	P143
GI-M2	P145	RED	RED	RED	P145
GI-M4	P147	RED	RED	RED	P147
L-M2	P149	RED	RED	RED	P149
L-M4	P151	RED	RED	RED	P151
PK	P153	RED	RED	RED	P153
L	P155	RED	RED	RED	P155
R	P157	RED	RED	RED	P157
GI-M1	P159	RED	RED	RED	P159
G2-M1	P161	RED	RED	RED	P161
L-M1	P163	RED	RED	RED	P163
R-M1	P165	RED	RED	RED	P165
GI-M2	P167	RED	RED	RED	P167
G2-M2	P169	RED	RED	RED	P169
GI-M4	P171	RED	RED	RED	P171
G2-M4	P173	RED	RED	RED	P173
GI-M2	P175	RED	RED	RED	P175
GI-M4	P177	RED	RED	RED	P177
L-M2	P179	RED	RED	RED	P179
L-M4	P181	RED	RED	RED	P181
PK	P183	RED	RED	RED	P183
L	P185	RED	RED	RED	P185
R	P187	RED	RED	RED	P187
GI-M1	P189	RED	RED	RED	P189
G2-M1	P191	RED	RED	RED	P191
L-M1	P193	RED	RED	RED	P193
R-M1	P195	RED	RED	RED	P195
GI-M2	P197	RED	RED	RED	P197
G2-M2	P199	RED	RED	RED	P199
GI-M4	P201	RED	RED	RED	P201
G2-M4	P203	RED	RED	RED	P203
GI-M2	P205	RED	RED	RED	P205
GI-M4	P207	RED	RED	RED	P207
L-M2	P209	RED	RED	RED	P209
L-M4	P211	RED	RED	RED	P211
PK	P213	RED	RED	RED	P213
L	P215	RED	RED	RED	P215
R	P217	RED	RED	RED	P217
GI-M1	P219	RED	RED	RED	P219
G2-M1	P221	RED	RED	RED	P221
L-M1	P223	RED	RED	RED	P223
R-M1	P225	RED	RED	RED	P225
GI-M2	P227	RED	RED	RED	P227
G2-M2	P229	RED	RED	RED	P229
GI-M4	P231	RED	RED	RED	P231
G2-M4	P233	RED	RED	RED	P233
GI-M2	P235	RED	RED	RED	P235
GI-M4	P237	RED	RED	RED	P237
L-M2	P239	RED	RED	RED	P239
L-M4	P241	RED	RED	RED	P241
PK	P243	RED	RED	RED	P243
L	P245	RED	RED	RED	P245
R	P247	RED	RED	RED	P247
GI-M1	P249	RED	RED	RED	P249
G2-M1	P251	RED	RED	RED	P251
L-M1	P253	RED	RED	RED	P253
R-M1	P255	RED	RED	RED	P255
GI-M2	P257	RED	RED	RED	P257
G2-M2	P259	RED	RED	RED	P259
GI-M4	P261	RED	RED	RED	P261
G2-M4	P263	RED	RED	RED	P263
GI-M2	P265	RED	RED	RED	P265
GI-M4	P267	RED	RED	RED	P267
L-M2	P269	RED	RED	RED	P269
L-M4	P271	RED	RED	RED	P271
PK	P273	RED	RED	RED	P273
L	P275	RED	RED	RED	P275
R	P277	RED	RED	RED	P277
GI-M1	P279	RED	RED	RED	P279
G2-M1	P281	RED	RED	RED	P281
L-M1	P283	RED	RED	RED	P283
R-M1	P285	RED	RED	RED	P285
GI-M2	P287	RED	RED	RED	P287
G2-M2	P289	RED	RED	RED	P289
GI-M4	P291	RED	RED	RED	P291
G2-M4	P293	RED	RED	RED	P293
GI-M2	P295	RED	RED	RED	P295
GI-M4	P297	RED	RED	RED	P297
L-M2	P299	RED	RED	RED	P299
L-M4	P301	RED	RED	RED	P301
PK	P303	RED	RED	RED	P303
L	P305	RED	RED	RED	P305
R	P307	RED	RED	RED	P307
GI-M1	P309	RED	RED	RED	P309
G2-M1	P311	RED	RED	RED	P311
L-M1	P313	RED	RED	RED	P313
R-M1	P315	RED	RED	RED	P315
GI-M2	P317	RED	RED	RED	P317
G2-M2	P319	RED	RED	RED	P319
GI-M4	P321	RED	RED	RED	P321
G2-M4	P323	RED	RED	RED	P323
GI-M2	P325	RED	RED	RED	P325
GI-M4	P327	RED	RED	RED	P327
L-M2	P329	RED	RED	RED	P329
L-M4	P331	RED	RED	RED	P331
PK	P333	RED	RED	RED	P333
L	P335	RED	RED	RED	P335
R	P337	RED	RED	RED	P337
GI-M1	P339	RED	RED	RED	P339
G2-M1	P341	RED	RED	RED	P341
L-M1	P343	RED	RED	RED	P343
R-M1	P345	RED	RED	RED	P345
GI-M2	P347	RED	RED	RED	P347
G2-M2	P349	RED	RED	RED	P349
GI-M4	P351	RED	RED	RED	P351
G2-M4	P353	RED	RED	RED	P353
GI-M2	P355	RED	RED	RED	P355
GI-M4	P357	RED	RED	RED	P357
L-M2	P359	RED	RED	RED	P359
L-M4	P361	RED	RED	RED	P361
PK	P363	RED	RED	RED	P363
L	P365	RED	RED	RED	P365
R	P367	RED	RED	RED	P367
GI-M1	P369	RED	RED	RED	P369
G2-M1	P371	RED	RED	RED	P371
L-M1	P373	RED	RED	RED	P373
R-M1	P375	RED	RED	RED	P375
GI-M2	P377	RED	RED	RED	P377
G2-M2	P379	RED	RED	RED	P379
GI-M4	P381	RED	RED	RED	P381
G2-M4	P383	RED	RED	RED	P383
GI-M2	P385	RED	RED	RED	P385
GI-M4	P387	RED	RED	RED	P387
L-M2	P389	RED	RED	RED	P389
L-M4	P391	RED	RED	RED	P391
PK	P393	RED	RED	RED	P393
L	P395	RED	RED	RED	P395
R	P397	RED	RED	RED	P397
GI-M1	P399	RED	RED	RED	P399
G2-M1	P401	RED	RED	RED	P401
L-M1	P403	RED	RED	RED	P403
R-M1	P405	RED	RED	RED	P405
GI-M2	P407	RED	RED	RED	P407
G2-M2	P409	RED	RED	RED	P409
GI-M4	P411	RED	RED	RED	P411
G2-M4	P413	RED	RED	RED	P413
GI-M2	P415	RED	RED	RED	P415
GI-M4	P417	RED	RED	RED	P417
L-M2	P419	RED	RED	RED	P419
L-M4	P421	RED	RED	RED	P421
PK	P423	RED	RED	RED	P423
L	P425	RED	RED	RED	P425
R	P427	RED	RED	RED	P427
GI-M1	P429	RED	RED	RED	P429
G2-M1	P431	RED	RED	RED	P431
L-M1	P433	RED	RED	RED	P433
R-M1	P435	RED	RED	RED	P435
GI-M2	P437	RED	RED	RED	P437
G2-M2	P439	RED	RED	RED	P439
GI-M4	P441	RED	RED	RED	P441
G2-M4	P443	RED	RED	RED	P443
GI-M2	P445	RED	RED	RED	P445
GI-M4	P447	RED	RED	RED	P447
L-M2	P449	RED	RED	RED	P449
L-M4	P451	RED	RED	RED	P451
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R	P457	RED	RED	RED	P457
GI-M1	P459	RED	RED	RED	P459
G2-M1	P461	RED	RED	RED	P461
L-M1	P463	RED	RED	RED	P463
R-M1	P465	RED	RED	RED	P465
GI-M2	P467	RED	RED	RED	P467
G2-M2	P469	RED	RED	RED	P469
GI-M4	P471	RED	RED	RED	P471
G2-M4	P473	RED	RED	RED	P473
GI-M2	P475	RED	RED	RED	P475
GI-M4	P477	RED	RED	RED	P477
L-M2	P479	RED	RED	RED	P479
L-M4	P481	RED	RED	RED	P481
PK	P483	RED	RED	RED	P483
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GI-M1	P489	RED	RED	RED	P489
G2-M1	P491	RED	RED	RED	P491
L-M1	P493	RED	RED	RED	P493
R-M1	P495	RED	RED	RED	P495
GI-M2	P497	RED	RED	RED	P497
G2-M2	P499	RED	RED	RED	P499
GI-M4	P501	RED	RED	RED	P501
G2-M4	P503	RED	RED	RED	P503
GI-M2	P505	RED	RED	RED	P505
GI-M4	P507	RED	RED	RED	P507
L-M2	P509	RED	RED	RED	P509
L-M4	P511	RED	RED	RED	P511
PK	P513	RED	RED	RED	P513
L	P515	RED	RED	RED	P515
R	P517	RED	RED	RED	P517
GI-M1	P519	RED	RED	RED	P519
G2-M1	P521	RED	RED	RED	P521
L-M1	P523	RED	RED	RED	P523
R-M1	P525	RED	RED	RED	P525
GI-M2	P527	RED	RED	RED	P527
G2-M2	P529	RED	RED	RED	P529
GI-M4	P531	RED	RED	RED	P531